

Amendments to the Claims

This listing of claims will replace all previous versions, and listings, of claims in the application.

1. (currently amended) An interface system for monitoring a number of channels in a communications system having at least one group of a number of nodes, each node having a number of channels, the interface system comprising:
 - a switch for controlling a spectrum analyzer interface with the nodes;
 - a processor electrically coupled to a local interface;
 - a memory electrically coupled to the local interface;
 - a display device electrically coupled to the local interface; and
 - object-oriented warning interface logic stored on the memory and executable by the processor to control the switch and the spectrum analyzer, the warning interface logic including:
 - logic to enable creation of, based upon user input data, and display of a test plan and a channel plan corresponding to at least one node encompassing all expected values for each service to be operated on said node;
 - logic to generate on the display device a channel percent advisory indicator within a channel level interface component upon an occurrence of an advisory event in a channel associated therewith, and a group percent advisory indicator in a group level interface component associated with the at least one group upon an occurrence of an advisory event in a channel associated with the at least one group;
 - logic to generate on the display device a channel critical alarm indicator within a channel level interface component upon an occurrence of a critical event in a channel associated therewith, and a group critical alarm indicator in a group level interface component associated with the at least one group upon an occurrence of a critical event in a channel associated with the at least one group;
 - logic to conduct automatic, periodic testing of signal characteristics of the at least one node according to the channel plan and the test plan; and

logic to conduct more frequent testing of selected nodes associated with a prior occurrence of advisory events or critical events, the more frequent testing in a prioritized node order based upon the current and historical number of alarm-triggering test measurements associated with the selected nodes, and upon the percentage of test measurements outside of an acceptable range[[d]] for the selected nodes.

2. (canceled)
3. (original) The system of claim 1, wherein the warning interface logic further comprises logic to generate a node percent advisory indicator on the display device in a node level interface component associated with one of the nodes upon an occurrence of an advisory event in a channel associated with the one of the nodes.
4. (canceled)
5. (original) The system of claim 1, wherein the warning interface logic further comprises logic to generate a node critical alarm indicator on the display device in a node level interface component associated with one of the nodes upon an occurrence of a critical event in a channel associated with the one of the nodes.
- 6-10. (canceled)
11. (currently amended) In a system including a spectrum analyzer and a local interface to which are electrically coupled a switch for controlling the spectrum analyzer, a processor, a memory, and a display device, the memory having stored on it object-oriented warning interface logic executable by the processor to control the switch and the spectrum analyzer, an interface method for monitoring a number of channels in a communications system having at least one group of a number of nodes, each node having a number of channels, the interface method comprising the steps of:
creating, based upon user input data, and displaying a test plan and a channel plan corresponding to at least one node encompassing all expected values for each service to be operated on said node;

conducting automatic, periodic testing of signal characteristics of the at least one node according to the channel plan and the test plan;
conducting more frequent testing of selected nodes associated with a prior occurrence of advisory events or critical events, the more frequent testing in a prioritized node order based upon the current and historical number of alarm-triggering test measurements associated with the selected nodes, and upon the percentage of test measurements outside of an acceptable range[[d]] for the selected nodes;
generating on the display device during automated channel testing a channel percent advisory indicator within a channel level interface component upon an occurrence of an advisory event in a channel associated therewith, and a group percent advisory indicator in a group level interface component associated with the at least one group upon an occurrence of an advisory event in a channel associated with the at least one group; and
generating on the display device during automated channel testing a channel critical alarm indicator within a channel level interface component upon an occurrence of a critical event in a channel associated therewith, and a group critical alarm indicator in a group level interface component associated with the at least one group upon an occurrence of a critical event in a channel associated with the at least one group.

12. (canceled)
13. (original) The method of claim 11, further comprising the step of generating a node percent advisory indicator on the display device in a node level interface component associated with one of the nodes upon an occurrence of an advisory event in a channel associated with the one of the nodes.
14. (canceled)
15. (original) The method of claim 11, further comprising the step of generating a node critical alarm indicator on the display device in a node level interface component

associated with one of the nodes upon an occurrence of a critical event in a channel
associated with the one of the nodes.

16-17. (canceled)